

## Arachne Risk Scoring Tool

Financial Management and Audit of EU Structural and Investment Funds
11 July 2019

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## • Article 125 (4)(c)

# of the Regulation (EU) No 1303/2013 of the European Parliament and of the Council

Managing authorities have to "put in place effective and proportionate anti-fraud measures taking into account the risks identified"

The European Commission wants to provide the managing authorities with a tool which can help them to comply to this article 125.4(c)



- ARACHNE is an integrated IT tool for data mining and data enrichment.
- Goal: providing the Member States authorities involved in shared management of the Structual Funds with an operational tool to identify:
  - 1. their most risky projects/contracts
  - 2. potential risks linked to all their projects and contracts
- Objective: support managing authorities in their administrative controls and management checks in the area of Structural Funds.

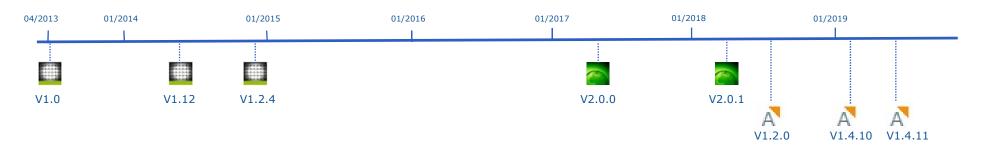




#### Arachne evolution



#### Arachne major milestones



- Users: +/- 5.000 (1.400 active users per quarter since 2018)
- Connections: > 75.000; Cumulative  $\sim 8.000$  per quarter since 2018
- Operational Programmes (ESF ERDF ETC)

217 OPs (2014-2020) - 272 billion€ (out of 491 billion€)

Projects: 438.067
 Beneficiaries: 98.340
 Contracts: 296.979
 Expenses: 3.927.171

Pilot for DG AGRI since begin '19 (6 MS involved in pilot)





## Status in Member States – mainstream OP's

#### For ESF and ERDF (2014-2020)

20 MS are currently involved into Arachne:

IT,PT,CZ,RO,HR,BE,AT,LV, LT,LU,BG,HU,ES,FR,SK, UK,MT,NL,SI, IE (\*)

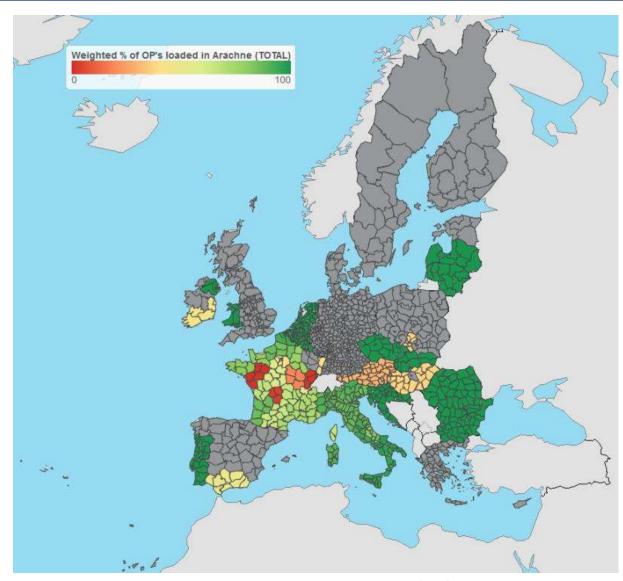
\* at least 1 operational programme

1 MS is in 'pilot' phase GR

2 MS are in 'reflexion' phase DK,EE

2 MS don't provide feedback PL,CY

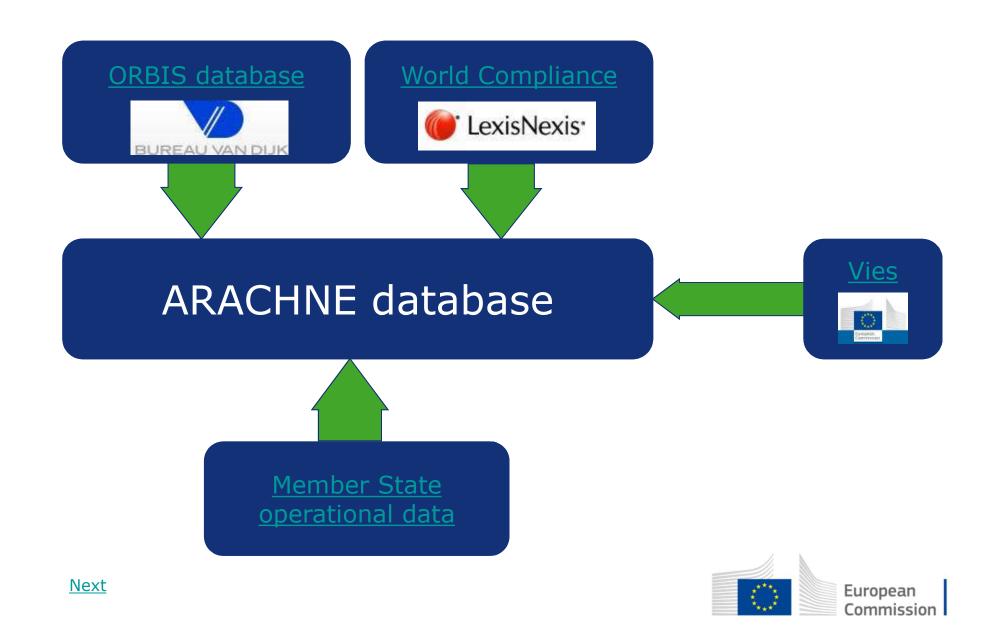
3 MS decided not to use Arachne DE,SE,FI







## Arachne – data sources





## Arachne – Internal operational data

#### Project data

- Project ID
- Project description
- Status
- Beneficiary
- Start date / end date
- EC Financial Assistance
- Total project cost
- Type of project
- Project partners
- Project details
- Related people

#### Contract data

- Contract ID
- Contract description
- Date signature
- Initial end date / Final end date
- Contractor / Subcontractors
- Amount
- Nbr Addenda / Amount of addenda
- Key experts
- Procurement information
  - Type
  - Tenders : valid / excluded / Total
  - Publication date

#### Expenses / invoices

- · Expense ID
- Expense Type
- Description
- Amount
- Contractor
- Invoice date
- Payment date





#### Arachne - Orbis database



Orbis has information on :

Companies: +/- 301 million companies worldwide (active and inactive)

- Ownership information (shareholders, subsidiaries, participation rate, ...)
- Financial data of the company (turnover, cash flow, solvency ratio, ...)
- Address information
- Related people (directors, senior management, contact people, ...)
- Indicators like credibility and bankruptcy

Persons: +/- 152 million persons

- First name, last name, Age
- Number of affinities, number of companies and role in company
- The data is collected from publicly available information such as official annual reports or balance sheets submitted to regulatory bodies
- The level of details available in the database varies by country and company size
- All data available in Arachne





## Arachne – World Compliance database



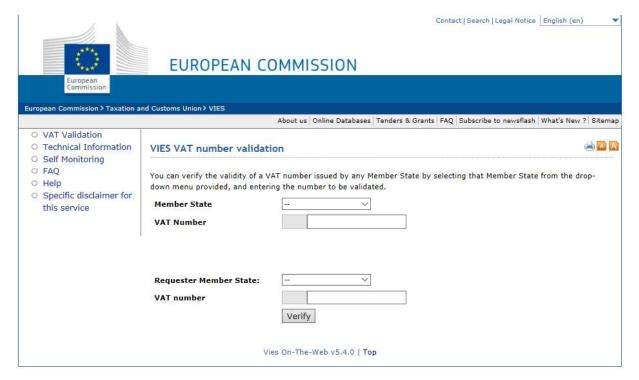
- World Compliance collects, aggregates and centralizes :
  - PEP lists (politically exposed person)
  - Sanctions lists (OFAC lists (Office of Foreign Assets Control), World Bank Debarred Parties List, CBI List (The Central Bureau of Investigation), ...)
  - Enforcement list (EU Terrorism List, FBI Most Wanted, Interpol Most Wanted, Narcotic & human traffickers, Money launderers, fraudsters and other criminals, ...)
  - Adverse media list (company or person that have been linked to illicit activities by news sources)
- The data is received from regulatory and governmental authorities (except for adverse media list)
- Information is only accessible through the Arachne alert details (It won't be possible for a user to explicitly retrieve these information for a given company/person)





#### Arachne - Vies database

 Validating VAT-identification numbers of economic operators registered in the European Union for cross border transactions on goods or services

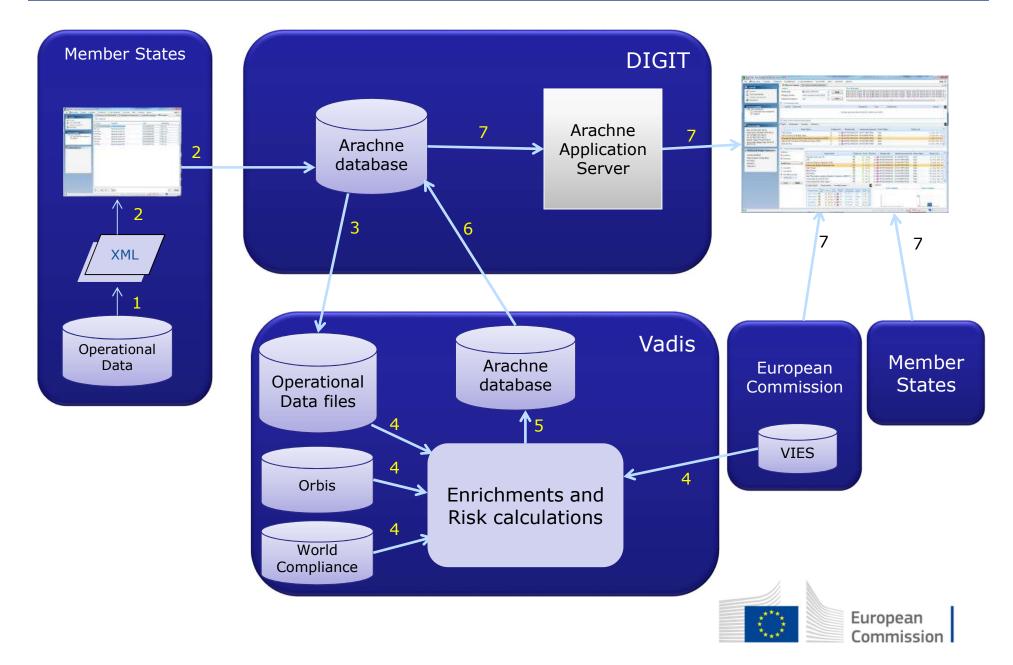


http://ec.europa.eu/taxation\_customs/vies/





## Arachne – data flow





## Arachne – Risk categories



#### 7 Risk categories

Procurement	Contract Mgt	Eligibility	Performance	Concentration	Reasonability	Reputation & Fraud
6 risks	11 risks	9 risks	18 risks	13 risks	15 risks	30 risks

#### Some examples

- Lead time between publication of tender and contract signature
- Nbr of valid tenders vs received tenders
- Financial correction

- Contractors with invalid VAT Nbr
- Contract
   amount versus
   turnover of
   the contractor
- Contract
   addenda cost
   vs contracted
   amount
- Payments outside eligibility period
- Duplicate amounts within expenses
- Expenses higher than project cost

- Nbr of people trained vs people to be trained
- Project cost vs km road constructed
- Water waste cost vs population to benefit
- Beneficiaries involved in multiple projects/OP's
- Contractors involved in multiple projects/OP's
- Subcontractors involved of multiple projects of the same beneficiary

- EC Fin.
   Assistance vs project cost
- Administration cost vs project cost
- Seminarspublishing costs vs project cost

- Propensity of Bankruptcy
- Link between beneficiary and (sub)contractors
- Involvement in Saction and enforcement lists
- Involvement in sensitive regions
- Change of company name / address/ activity / directors



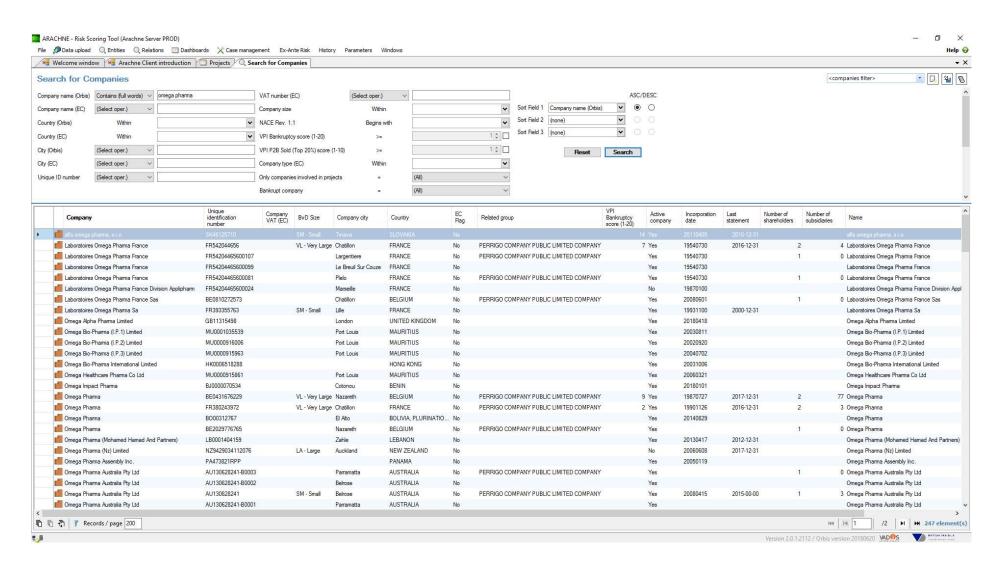


## Arachne application - screenshots







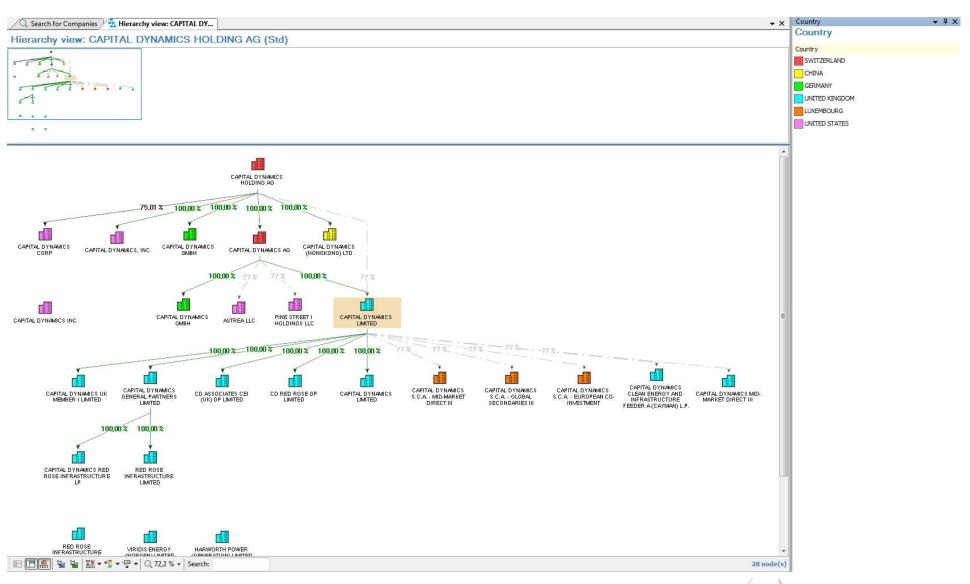






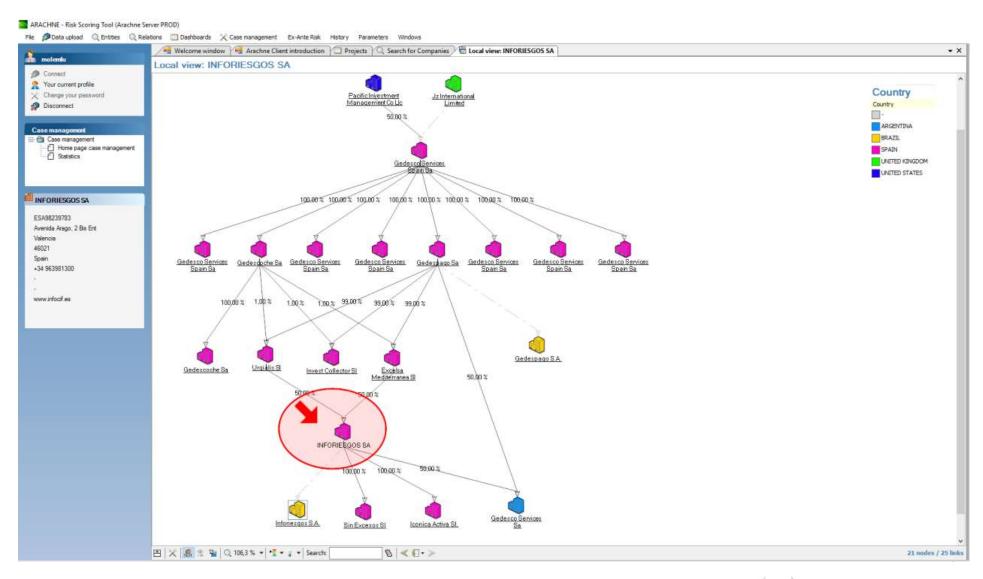
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ral infor		4 Mercuur Consult NV				3	120120301	20170516	Board of Directors - Member	Previous	
		🖧 Marc Armand Alice Andre Liliane Coucke	53	19650127	515	29	H		Senior management - Unspecified executive	Previous	
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any name vpe		ᇽ Marc Armand Alice Andre Liliane Coucke	53	19650127	515	29	H		Owners / Partners / Shareholders / Founders - Owner / Partner / Shareholder / Founder	er Previous	
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EC) code (EC)		👊 Marc Armand Alice Andre Liliane Coucke	53	19650127	515	29	H		Senior management - Highest executive	Current	
try (EC)		ᇽ Marc Armand Alice Andre Liliane Coucke	53	19650127	515	29	H		Other or unspecified department - Executive	Current	
		ᇽ Marc Armand Alice Andre Liliane Coucke	53	19650127	515	29	H		Other or unspecified department - Chief Officer	Current	oun
		ᇽ Marc Armand Alice Andre Liliane Coucke	53	19650127	515	29	1120120301	20160425	Senior management - Highest executive	Previous	
		🖧 Svend Andersen	56	19611206	578	126	1:20170301	20220502	Board of Directors - Member	Current	
		ᇽ Jan Michael Dominik Cassiman	56	19620517	71	4	l.		Senior management - Deputy executive	Previous	
project co		🖧 Paul Eelen			1,021	181	1120150428	20180507	Advisors - Auditor	Previous	
cial info		🖧 Sharon Gershon Kochan	49	19680711	394	112	:20160722	20170301	Board of Directors - Member	Previous	
eighb		Benoit Suzanne Denise Norbert Graulich	52	19650704	349	28	1120070604	20100503	Board of Directors - Member	Previous	
Julio		🖧 Peter Gustaaf Van Den Eynde	50	19671111	1,144	185	1120080000	20100000	Advisors - Auditor	Previous	
Share		🔐 Barbara De Saedeleer	48	19700117	308	28	H		Finance & Accounting - Chief Financial Officer	Current	
Stiate		🛺 Jean-louis Yves Marie Joseph Duplat			173	8	1.20060606	20080601	Board of Directors - Member	Previous	
		🛺 Barbara De Saedeleer	48	19700117	308	28	П		Finance & Accounting - Financial controller	Current	
		🖧 Sam Albert Camiel Sabbe	52	19651130	260	39	1!		Other Board or Committee - Member	Previous	
		General Christoph Patrick Stauble	51	19670224	220	37	IC		Senior management - Deputy executive	Previous	
S		Gristophe Eric Peter Tans			389	161	1(20160722	20220426	Board of Directors - Member	Current	
		Barbara De Saedeleer	48	19700117	308	28	1120150428	20160425	Board of Directors - Member	Previous	
		🖧 Schepens Ton			68	1	I!		Owners / Partners / Shareholders / Founders - Owner / Partner / Shareholder / Founder	er Previous	
Н		🖧 Judy Lynne Brown	50	19680606	342	112	1,20150330	20170501	Board of Directors - Member	Previous	
159		🖧 Judy Lynne Brown	50	19680606	342	112	I. 20150330	20160722	Board of Directors - Member	Previous	
R		🛵 John Thomas Hendrickson	55	19620912	534	111	1,20150330	20170501	Board of Directors - Member	Previous	
C		🛵 John Thomas Hendrickson	55	19620912	534	111	1,20150330	20160722	Board of Directors - Member	Previous	
133		🖧 Benoit Graulich				12	120120301	20150428	Board of Directors - Member	Previous	
M		🖧 Lieven Adams			218	7	1119990607		Advisors - Auditor	Previous	
C		🖧 Louis Cherico	46	19711126	305	25	1120160722	20220502	Board of Directors - Member	Current	
C		🖧 Mylecke Management, Art & Invest NV				7	120120301	20160425	Senior management - Highest executive	Previous	
100		Ç FV Management BVBA 0831.614.553				15	120120301	20150330	Board of Directors - Member	Previous	
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#### Hierarchy view of a company



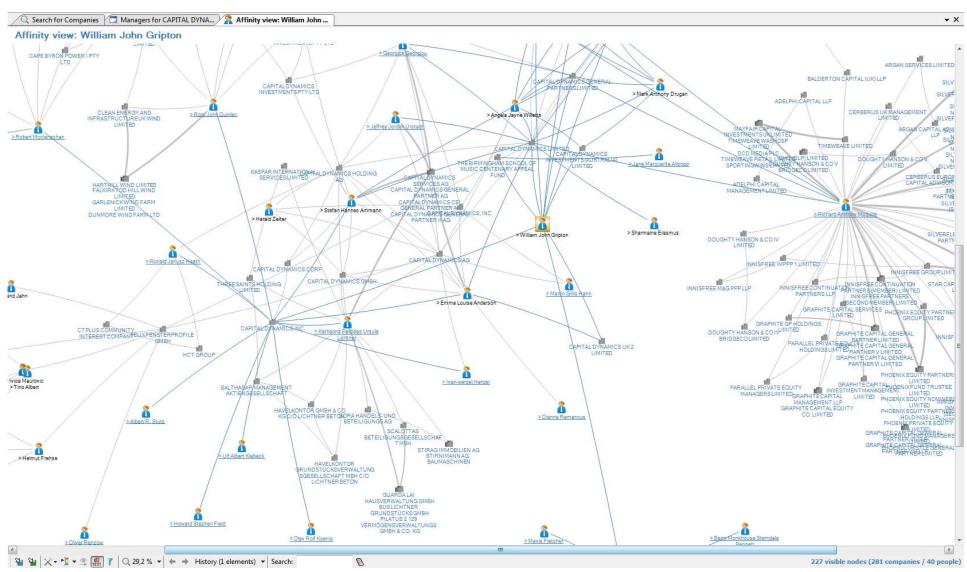
















Welcome window Projects

Projects

Name (generic)	Project ID	Case status	Overall score	Procurement Overal Score	Contract	lb like	Score	Overall Score	Overal Score	Reasonability Overall Score	Reputational Frand Alerts	2	Member state	Managing Authority	Operational programme	Project Status	Project Cost
FAKE-Project-102/08	FDVC.01.03.01-01-002/08		() s	2 0	41 @ 4	80	-0	-0	28 6	) (	0 .	46 Energy eff. Urban	(Fake country)	Ministerie 2	9999XA999XX001	Closed	1.921.933,8
	FDVC.01.03.02-00-024/09	F.1	3	10	-0	-0	21 📦	50 🔾	25 🤅	) 40	0 .	21 ESF	(Fake country)	Ministerie 3	9999XA999XX001	Closed	877.286,50
	FDVC.01.03.01-00-044/08		O 2	9 🔵	30 🎱 4	5 🔾	21 🔘	16 📦	36	) 13	3 📦 .	48 ESF	(Fake country)	Ministerie 2	9999XA999XX001	Closed	256.853,8
	FDVC.016	2.	O 2	8 🔘	15 🔵 3	00	-0	- 0	20 🤇	) 33	3 📦	44 Solid waste	(Fake country)	Ministerie 10	9999XA999XX001	Closed	50,0
	FDVC.01.03.01-00-060/08	41	O 2	7 🔵	41 🔘 3	40	-0	- 0	28 🧉	) (	0 .	35 -	(Fake country)	Ministerie 2	9999XA999XX001	Closed	953.523,4
	FDVC.01.01.00-00-003/08	5.	O 2	60	-0	- @	16 📦	50 🔘	37 🧉	0	00 .	27 Energy eff. Urban	(Fake country)	Ministerie 1	9999XA999XX002	Closed	35.900.082,0
	FDVC.01.03.01-00-023/08	5.	O 2	6 🥌	50 🔘 3	18 🔘	20 📦	0 🔘	35 €	0	0 📦 .	44 ESF	(Fake country)	Ministerie 2	9999XA999XX001	Closed	445.525,7
⊕ FAKE-Project-045/09	FDVC.01.02.00-00-045/09	Eq.	O 2	6 🔘	41 0 2	8 📦	0 📦	50 🔾	20 🧉	) 10	0 🔘 .	35 Rail	(Fake country)	Ministerie 2	9999XA999XX001	Closed	50.694.270,0
	FDVC.008	En .	O 2	60	-0	-0	- 0	32 📦	6 (	) 36	6 🔘 .	33 SME	(Fake country)	Ministerie 10	9999XA999XX001	Closed	12.345,0
⊕ FAKE-Project-002/08	FDVC.01.03.01-00-002/08		O 2	5 📦	41 🌍 - 5	0 0	10 📦	0 🔾	30 €	0	0 📦	46 ESF	(Fake country)	Ministerie 2	9999XA999XX001	Closed	1.921.933,8
	FDVC.01.03.01-00-258/10	Assigned	O 2	5 🔾	26 🔘 1	60	- 0	50 😡	20 🧉	) (	0 🔘 .	39 Energy eff. Urban	(Fake country)	Ministerie 3	9999XA999XX001	Open	2.259.724,0
⊕ FAKE-Project-ExtProv	FDVC.017	2.	O 2	5 🔘	15 🔾 3	00	-0	- 😡	13 🥝	) 33	3 😡 ,	36 Solid waste	(Fake country)	Ministerie 11	9999XA999XX001	Closed	50,0
	FDVC.01.01.00-00-012/08	83	O 2	40	-0	-0	-0	-0	28 🤇	) 13	з 🔘 .	32 -	(Fake country)	Ministerie 1	9999XA999XX001	Open	187.000.000,0
	FDVC.01.01.00-00-007/08	-3	O 2	3 (	-0	-0	-0	- 📦	10 @	40	0 .	21 -	(Fake country)	Ministerie 1	9999XA999XX001	Closed	4.140.621,0
	FDVC.01.03.01-00-027/08	51	O 2	3 🔾	-0	-0	-0	- 🔾	28 🧉	) (	0 📦 .	42 ESF	(Fake country)	Ministerie 2	9999XA999XX001	Closed	261.241,8
	FDVC.01.03.01-00-188/09	2:	O 2	3 (	-0	-0	-0	- 0	35 🧉	0	0 .	36 -	(Fake country)	Ministerie 3	9999XA999XX002	Closed	699.652,0
	FDVC.01.03.01-00-197/09	E9	O 2	3 🍚	50 🔵 2	8 0	-0	10 🔾	20 🧉	) (	0 🔘 .	32 Water waste / supply	(Fake country)	Ministerie 3	9999XA999XX001	Closed	56.340,0
	FDVC.02.03.04-00-007/08	-:	O 2	3 🔘	-0	-0	-0	- 📦	10 @	40	0 .	21 ESF	(Fake country)	Ministerie 58	9999XA999XX001	Closed	4.000.140.621,0
	FDVC.01.02.00-00-020/08	5.	O 2	2 🔾	30 🔘 1	8 📦	0 📦	50 🔾	21 🧉	0	0 🔘 .	36 Rail	(Fake country)	Ministerie 2	9999XA999XX001	Closed	64.959.590,0
	FDVC.01.03.01-00-046/08	D)	O 2	2 (	26 🔘 4	00	16 📦	0 🔾	28 🧉		6 .	39 Rail	(Fake country)	Ministerie 2	9999XA999XX001	Closed	886.132,0
⊕ FAKE-Project-003/08	FDVC.01.01.00-00-003/08		O 2	10	-0	-0	-0	-0	25 🤇	) 12	2 🔾 .	26 Energy eff. Urban	(Fake country)	Ministerie 1	9999XA999XX001	Closed	35.900.082,0
	FDVC.01.01.00-00-011/08	-3	O 2	10	25 🔘 1	20	21 🔾	25 🔾	25 🧉	) (	6 🔘 .	37 ESF	(Fake country)	Ministerie 1	9999XA999XX001	Closed	1.110.004,0
	FDVC.01.03.02-00-026/09	5.	O 2	10	18 0 2	8 🔾	-0	15 🔾	22 6	) (	0 📦 .	46 Road	(Fake country)	Ministerie 3	9999XA999XX001	Open	3.558.447,8
	FDVC.01.02.00-00-003/09	2:	O 2	00	25 🔘 1	5 🔘	160	- 0	36 €	0	0 .	28 ESF	(Fake country)	Ministerie 2	9999XA999XX001	Open	5.677.577,0
	FDVC.01.03.01-00-226/10	60	O 2	00	-0	-0	-0	-0	25 🧉	) (	0 .	37 -	(Fake country)	Ministerie 3	9999XA999XX001	Open	1.917.167,0
	FDVC.01.03.01-00-232/10	-3	O 2	00	-0	-0	-0	- 0	25 🧉	0	0 🔘 .	36 -	(Fake country)	Ministerie 3	9999XA999XX001	Open	1.190.262,0
⊕ FAKE-Project-254/10	FDVC.01.03.01-00-254/10	=:	0 2	00	-0	-0	-0	- 0	25 🧉	) (	0 🔘 .	37 ESF	(Fake country)	Ministerie 3	9999XA999XX001	Open	2.262.644,0
	FDVC.005	23	O 2	00	-0 2	10	-0	25 🍛	4	) 10	0 📦	40 SME	(Fake country)	Ministerie 7	9999XA999XX001	Closed	786.786,0
⊕ FAKE-Project-259/10	FDVC.01.03.01-00-259/10	40	0 1	9 🔾	-0	-0	-0	- 0	25 🧉	) (	0 .	34 ESF	(Fake country)	Ministerie 3	9999XA999XX001	Open	254.833,0
⊕ FAKE-Project-008/10	FDVC.01.01.00-00-008/10		O 1	8 🔾	25 📦	7 🔘	160	23 🌑	5 (	) 18	s 🔘 .	38 Water waste / supply	(Fake country)	Ministerie 1	9999XA999XX001	Open	2.648.981,0
⊕ FAKE-Project-015/08	FDVC.01.01.00-00-015/08		O 1	8 🔾	26 0 1	8 📦	0 🔾	25 🔾	18 🧉	) ;		40 Road	(Fake country)	Ministerie 1	9999XA999XX001	Closed	7.857.960,0
⊕ FAKE-Project-150/09	FDVC.01.03.01-00-150/09	23	O 1	80	-0	-0	- @	0 😡	35 🧉	0	0 🔘 .	37 Road	(Fake country)	Ministerie 3	9999XA999XX002	Closed	552.303,0
⊕ FAKE-Project-370/11	FDVC.01.03.01-00-370/11	E2	O 1	80	-0	- 📦	10 📦	7 🔾			۵ .	37 Solid waste	(Fake country)	Ministerie 3	9999XA999XX001	Open	784.470,0
	FDVC.000	-:		80	-0	-0	-0	- 📦	10 (	) 28	5 .	21 Road	(Fake country)	Ministerie 3	9999XA999XX001	Closed	4.563,0
	FDVC.004	1.	O 1	8 🔾	-0	-0	-0	- @	6 (	15	5 🔘 .	35 -	(Fake country)	Ministerie 6	9999XA999XX001	Closed	45.686,0

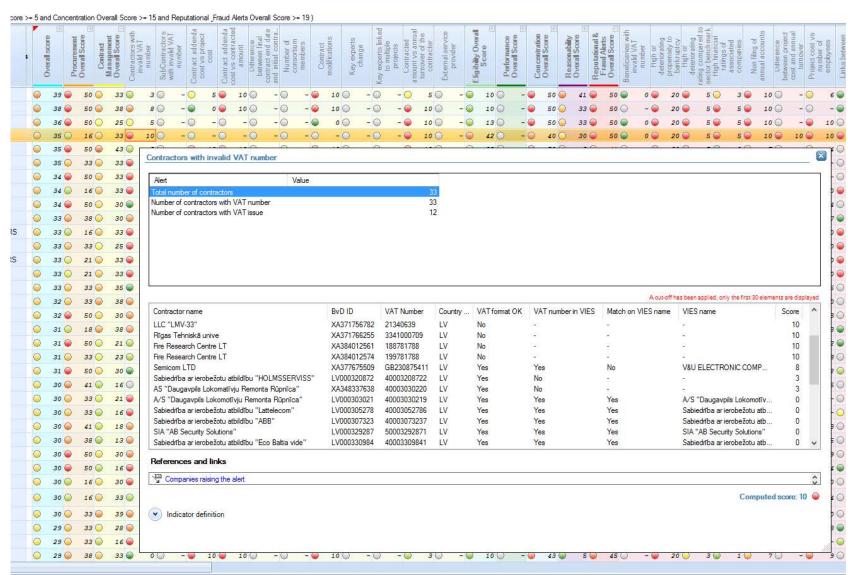




Name (generic)		Overall score	Procurement Overall Score	Contract Management Overall Score	tract	SubContractors	number Contract addenda	ST C	cost vs contracted amount Uniference	contract end date and initial contra Number of	members	modifications	change change Key experts linked	projects Contracted	turnover of the contractor External service		Score	outside eligbility period - before start date Project costs	period - after end date	and payment dates High percentage	the end of the project	Expenses with round amounts	Duplicate amounts within expenses	Negative	Expenses higher than project cost
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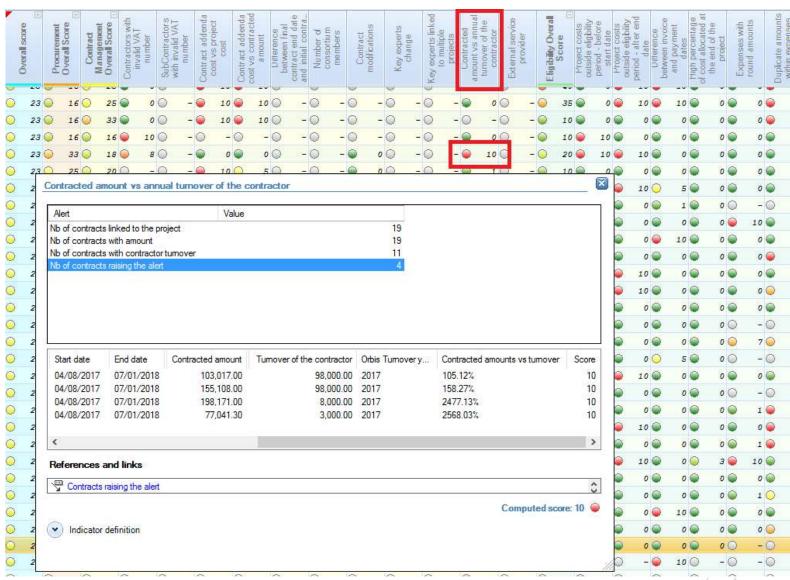




Contractors with invalid VAT number





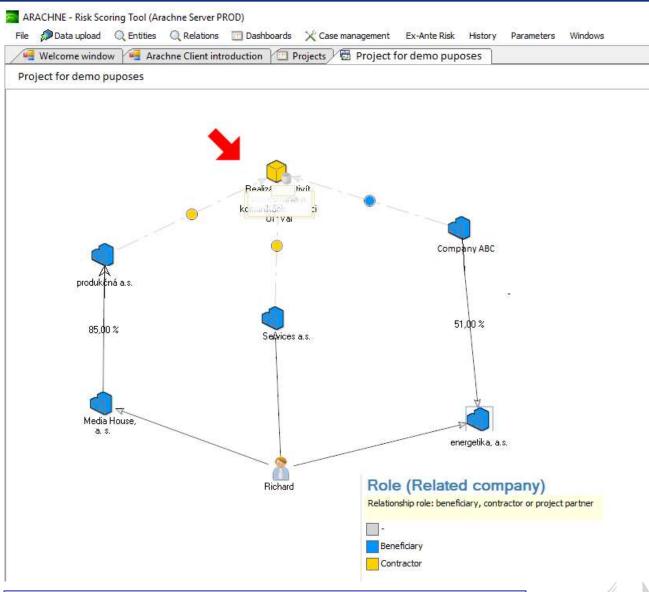


Contracted amount vs annual turnover contractor



European Commission

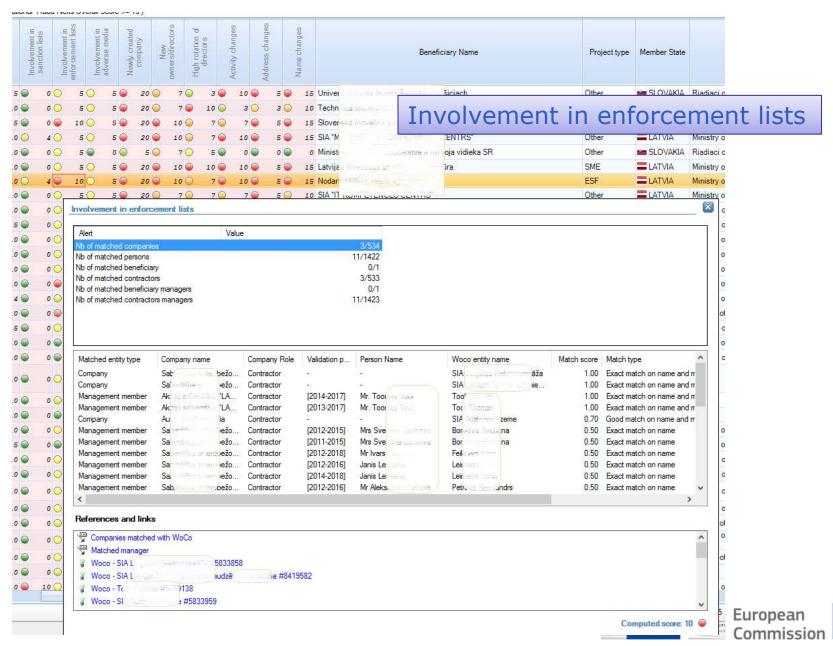




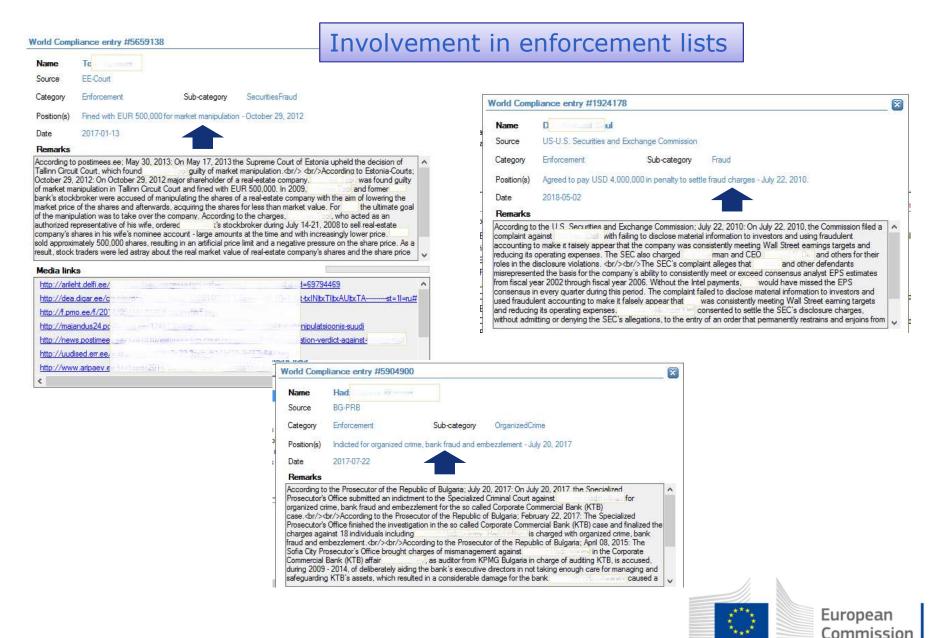
Link between beneficiary and contractors



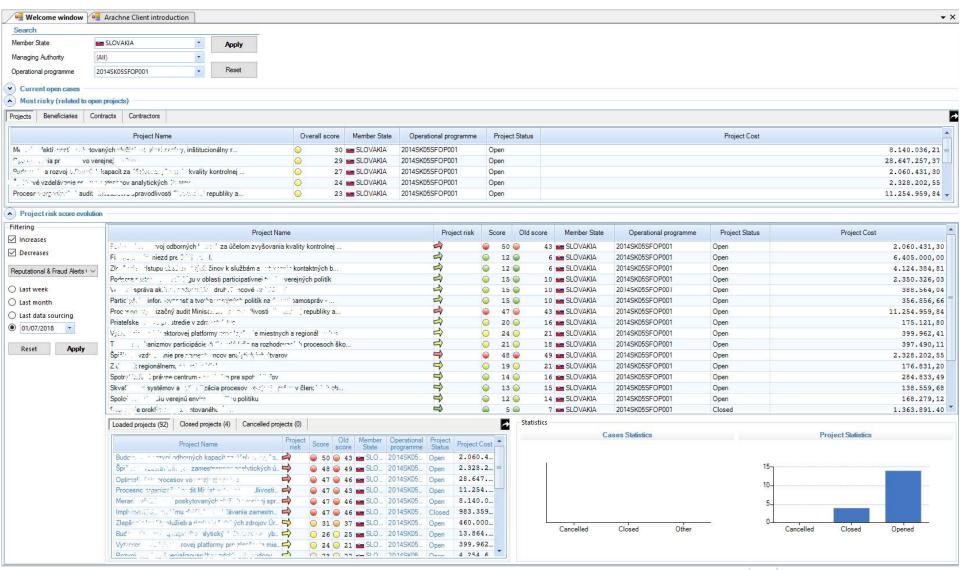






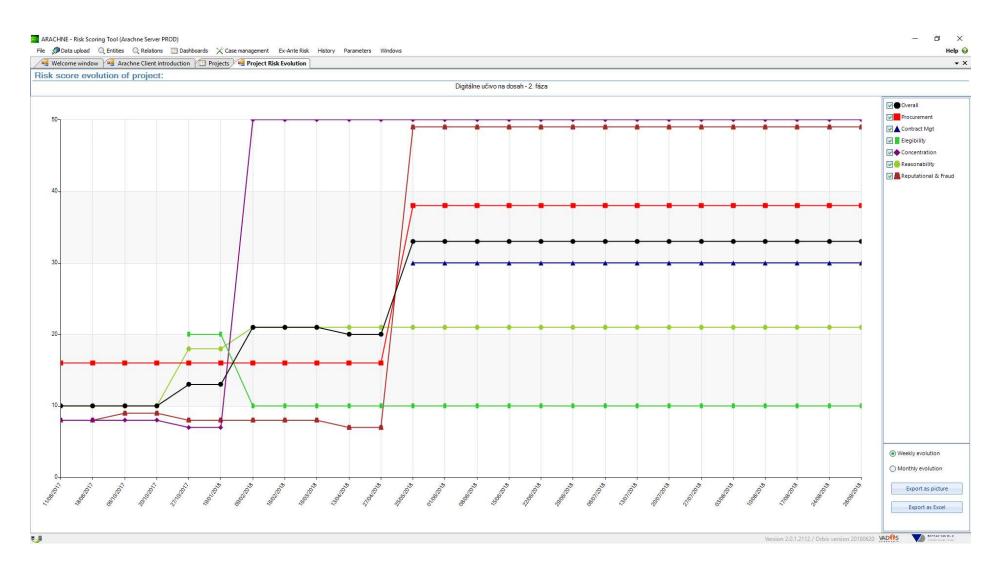






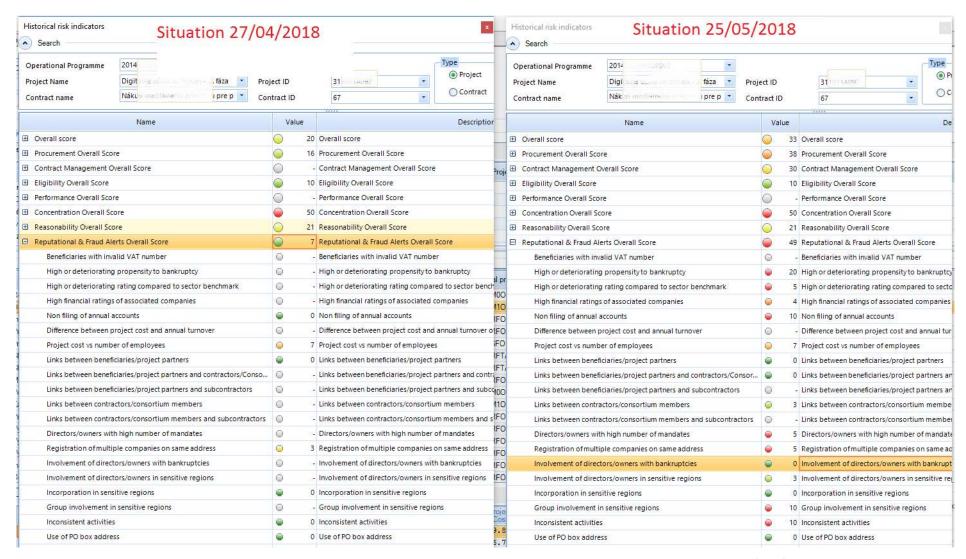






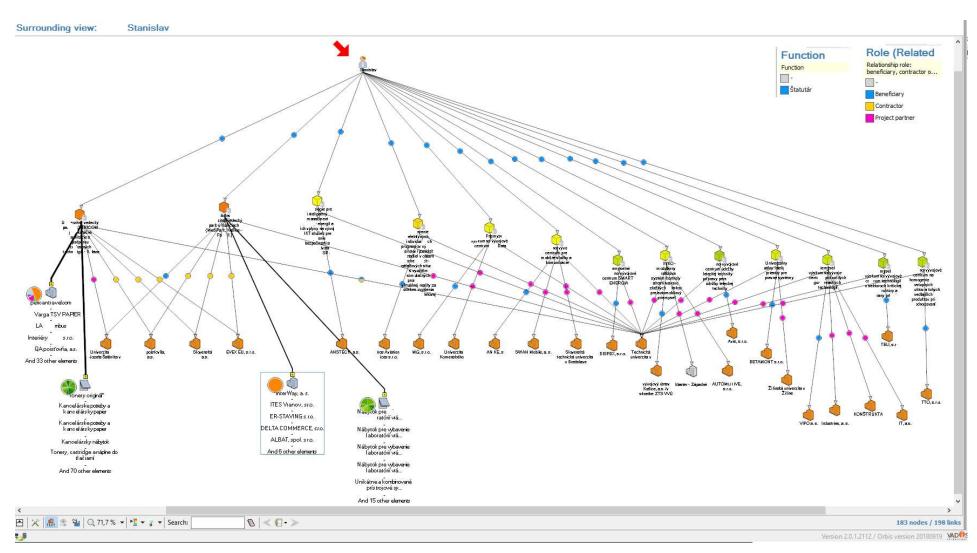
















#### Arachne – Stakeholders and users



#### Current users:

- Managing Authorities / Paying Agencies in the Member States are the core users
- MA's / PA's can grant access to their:
  - Certifying Authorities
  - Audit Authorities
  - Intermediate Bodies



- DG REGIO, DG EMPL and DG AGRI Auditors of Shared management
- OLAF and ECA have no direct access but can ask for info only in exceptional and duly justified reasons

#### Potential future users:

- Other DG's / Agencies
- Direct management in EC





## Arachne – Webpage

## More info on Arachne webpage

http://ec.europa.eu/social/main.j sp?catId=325&intPageId=3587&l angId=en

#### Related documents

Available on 🖷 la free base

	loop (2017)   PDF	
What is n	ew in ARACHNE v2.0 (2017) PDF	
ARACHN	E Charter (2015) PDF	
ARACHN	- Frequently Asked Questions (2016) PDF	
Opinion o	f the European Data Protection Supervisor (2	2017)   PDF
<b>数+003/2016</b>		
	- Be distinctive	-
Arachne Arachne is a risk so If supports managin and investment Fur risky projects, contr will give shows the	ning flor developed by the European Commission is administer requirement for the European Structural to the developing office-theirly and efficiently the most into contrast of the European Structural International Development of the European and possibilities of the Anatom solid-correg both and release can profit from its immediate and the European and the the European and the	Arachne

#### Available in 24 languages







# Thank you!



